

Work Order ID 150792
September 06, 2016 2:25:08 PM

150792

Page 1

Item ID: D4464-041

Accept

Revision ID:

N900040100

Setup Start

NS1

Item Name: Fuel Tank Assembly

Stop

NS2

Start Date: 9/6/2016 Start Qty: 1.00

Cust Item ID:

Required Date: 10/18/2016 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: SA

Date: SEP 06 2016

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr	Revision Nbr
D4464	H

100 Weld per dwg A/R Aluminum rod Batch: 413013600

100

Large Fab

Memo

1- Weld D4023-3 cap as per dwg D4464

0.53

DAS 43

SEP 12 2016

110

QC9-Inspect visual per QSI004-Fusion Welds

0.00

110

QC

Memo

0.00

Quality Control

112

112

Small Fab

Memo

0.19

Small Fab

1- Wet install baffles to front and back panel using rivet and Proseal as per dwg A/R Proseal Batch: 135390

11X

16/09/13 DAS 36

Ship Oct 18

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐		AGAINST DEPARTMENT/PROCESS		MRB (QSD42) Approval	
Date: _____ Step #: _____		QTY Effective : _____		Disposition			
Description Work Order Deviation							
Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval							

Root Cause		FAULT CATEGORY											
Environment	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/ Surge	☐	Positioned Wrong	☐	Outside Dimensions	☐	Over/Under tolerance	☐
Design	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Grain	☐	Part Incorrect	☐	Part Lost/Missing	☐
Doc/Data	☐	Centre Not Concentric	☐	BOM/Route	☐	Weld	☐	Wrong Stock Pulled	☐	Part Moved	☐	Drawing	☐
Equip/Tooling	☐	Cracks	☐	Broken/Damage/Defect	☐	Out of Sequence	☐	Off-set	☐	Finish	☐	Misread	☐
Handling/Pre	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Mislabeled	☐	Fit/Function	☐	Turning Sequence	☐		
Material	☐	Cuffs	☐	Contamination	☐	Misaligned/off center	☐		☐				
Internal Transport	☐	Crushing	☐	Countersink	☐								
Tribal Knowledge	☐	Heat Treat	☐	Cut Too Short	☐								
LOA	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐								
Substation	☐	Marks/Chatter	☐	Drill Holes	☐								
Past Expiry Date	☐												
Misidentified	☐												
		OTHER : ☐											

Work Order ID 150792
September 06, 2016 2:25:08 PM

150792

Item ID:	D4464-041	Accept	*N9000040100*	Setup	Start	*NS1*
Revision ID:						
Item Name:	Fuel Tank Assembly				Stop	*NS2*
Start Date:	9/6/2016	Start Qty:	1.00			
Required Date:	10/18/2016	Req'd Qty:	1.00			
Reference:						

Approvals:	Process Plan:	Date:	Tooling:	Date:	Run	Start	*NR1*
	QC:	Date:	SPC (Y/N):	Date:		Stop	*NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
114	QC5- Inspect part completeness to step on W/O	0.00							
114	QC	Memo							
Quality Control									

1
16-09-13

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____ Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other	AGAINST DEPARTMENT/PROCESS	Date: _____ Step #: _____ QTY Effective : _____ Disposition 	MRB (QS1042) Approval 																																																															
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OTHER : ☐		Completed By 																																																																	
Lead hand / Supervisor Approval Verification 		QC / QA Coordinator Approval 																																																																	

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Page 3

NSI

NS

NB1

NR2

Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
-----------	------------	------------	---------------	-------------

7-Weld top D4463-1 using DT9811 and DT9810

16-09-28

16/09/19

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DQA: _____ Date: _____

Date:

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Suspected Unapproved		AGAINST DEPARTMENT/PROCESS Skid-tube Cross tube Water Jet Machining Small Fab Prod. Eng. Coord. Thermoforming Finishing Rec/Store/Packaging Large Fab Composite Supplier				Engineering Quality Other	
Date : _____		Step #: _____		QTY Effective : _____		MRB (QS1042) Approval			
Description Work Order Deviation				Disposition					
Completed By				Lead hand / Supervisor Approval Verification					
QC / QA Coordinator Approval				QC / QA Coordinator Approval					

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
		OTHER :									

Work Order ID 150792

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Item ID: D4464-041

Revision ID:

Item Name: Fuel Tank Assembly

Start Date: 9/6/2016 Start Qty: 1.00

Required Date: 10/18/2016 Req'd Qty: 1.00

Reference:

Accept

N900040100

Setup Start

NS1

Stop

NS2

Cust Item ID:

Customer:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

NR1

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

PURGE INSIDE OF TANK

123

QC5- Inspect part completeness to step on W/O

0.00

123

QC

Memo

0.00

Quality Control

Pressure Test as per dwg D4464

DAS 24 9-09

1x OCT 03 2016

140

QC9- Inspect visual per QSI004- Fusion Welds

0.00

140

QC

Memo

0.00

Quality Control

DAS 24 9-09

1x OCT 03 2016

Work Order ID 150792
September 06, 2016 2:25:08 PM

150792

Page 5

Item ID: D4464-041 Accept *N9000040100* Setup Start *NS1*
Revision ID: Fuel Tank Assembly Stop *NS2*
Start Date: 9/6/2016 Start Qty: 1.00 *1*
Required Date: 10/18/2016 Req'd Qty: 1.00 *1*
Reference: Customer: *NS2*

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
143	Outsource process - NDT per OSI038 4.1	0.00							
143	Memo Outsource2 ISSUE P/O : 33799	30.00							DAS 13 9-69
	Outsource process - NDT								
	LPI INSPECTION								
	C OF C IS REQUIRED								

145 Receive & Inspect for Damage & Mat'l Certs 0.00
145
Packing Memo 0.00
Packaging

147 QCS- Inspect part completeness to step on W/O 0.00
147
QC Memo 0.00
Quality Control

1x SP16-10-3

1
OCT 05 2016

Work Order update only

H:/FORMS/Quality Assurance/approved QA/NCRWO Rev I

Work Order ID 150792

150792

Page 6

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Item ID: D4464-041

Accept

N9000040100

Setup Start

NS1

Revision ID:

Item Name: Fuel Tank Assembly

Stop

NS2

Start Date: 9/6/2016 Start Qty: 1.00

1

Required Date: 10/18/2016 Req'd Qty: 1.00

1

Cust Item ID:
Customer:

Reference:

Approvals: Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run

Stop

NR1

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept
Qty

Reject
Qty

Reject
Number Insp.
Stamp

150

Chemical Conversion Coat per OSI005 4.1

0.00

150

HandFinish

Memo

0.20

Hand Finishing

1- Alodine on tank. No alodine inside

160

QC-Inspect Chemical Conversion Coat

0.00

160

QC

Memo

0.00

Quality Control

164

0.00

164

Small Fab

Memo

0.25

Small Fab

1- Brush Proseal 890A on all internal sheet metal folds
Proseal 890A Batch: 135390

2- Assemble as per dwg and for D4577-041/-3/-5 access panels install wet with
proseal 890B

A/R Proseal 890B Batch: 135350

16/10/11
DAS
36
9-89

16/10/11
DAS
36
9-89

26/10/04

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

Work Order: _____ Part No.: _____ NCR No.: _____		DISPOSITION Rework ☐ ☐ Scrap ☐ ☐ Use-as-is ☐ ☐ Suspected Unapproved ☐ ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ ☐ Water Jet ☐ ☐ Small Fab ☐ ☐ Prod. Eng. Coord. ☐ ☐ Finishing ☐ ☐ Rec/Store/Packaging ☐ ☐ Composite ☐ ☐ Supplier ☐ ☐		Engineering Quality ☐ ☐ Other ☐ ☐		MRB (QS1042) Approval _____			
Date: _____		Step #: _____		QTY Effective: _____		Disposition _____					
Description Work Order Deviation _____				Completed By _____				Lead hand / Supervisor Approval Verification _____			
Root Cause				FAULT CATEGORY							
Environment ☐ ☐		No Re-verification ☐ ☐		Pressure/Forced ☐ ☐		Temperature/Cure ☐ ☐		Power Loss/Surge ☐ ☐		Positioned Wrong ☐ ☐	
Design ☐ ☐		Operator ☐ ☐		Bending ☐ ☐		Set-up ☐ ☐		Folio/Program ☐ ☐		Outside Dimensions ☐ ☐	
Doc/Data ☐ ☐		Offset/Setup ☐ ☐		Centre Not Concentric ☐ ☐		BOM/Route ☐ ☐		Grain ☐ ☐		Over/Under tolerance ☐ ☐	
Equip/Tooling ☐ ☐		Supplier ☐ ☐		Cracks ☐ ☐		Broken/Damage/Defect ☐ ☐		Weld ☐ ☐		Part Incorrect ☐ ☐	
Handling/Pre ☐ ☐		Training ☐ ☐		Crimp/Kink/Ripple/Wave ☐ ☐		Inspection Incomplete/Unqualified ☐ ☐		Wrong Stock Pulled ☐ ☐		Part Lost/Missing ☐ ☐	
Material ☐ ☐		Use for Testing ☐ ☐		Cuffs ☐ ☐		Contamination ☐ ☐		Out of Sequence ☐ ☐		Part Moved ☐ ☐	
Internal Transport ☐ ☐		Poor Information ☐ ☐		Crushing ☐ ☐		Countersink ☐ ☐		Off-set ☐ ☐		Drawing ☐ ☐	
Tribal Knowledge ☐ ☐		Rushing ☐ ☐		Heat Treat ☐ ☐		Cut Too Short ☐ ☐		Mislabeled ☐ ☐		Finish ☐ ☐	
LOA ☐ ☐		Product Improvement ☐ ☐		Wave/Twist in Tube ☐ ☐		Instructions Incomplete/Unclear ☐ ☐		Fit/Function ☐ ☐		Misread ☐ ☐	
Substation ☐ ☐		Process Improvement ☐ ☐		Marks/Chatter ☐ ☐		Drill Holes ☐ ☐		Misaligned/off center ☐ ☐		Turning Sequence ☐ ☐	
Past Expiry Date ☐ ☐		Manufacturing Process ☐ ☐		OTHER: _____							
Misidentified ☐ ☐		Past Due ☐ ☐									

Work Order ID 150792

September 06, 2016 2:25:08 PM

150792

Item ID: D4464-041

Accept

N9000040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Fuel Tank Assembly

Start Date: 9/6/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 10/18/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

169 QC5- Inspect part completeness to step on W/O

0.00

1AQ

QC

Memo

0.00

Quality Control

170

0.00

17N

SprayPaint

Spray Painting

Memo

MASK PROIOR PRIME AND PAINT AS PER DWG

0.18

PRIME TEMPO GREY AS PER DWG AND OSI
PRIMER BATCH: 134518

PAINT FLAT GREY AS PER DWG AND OSI
PAINT BATCH: 134107

① 1610-12

DAS 9 9-89

13-10-16

DQA:

Date: _____

QA Closed:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only



Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS				Work Order update only							
Part No. _____		Rework ☐ Scrap ☐ Use-as-is ☐		Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐		Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐		Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐							
NCR No. _____		Suspected Unapproved ☐						Engineering ☐ Quality ☐ Other ☐							
Date: _____		Step #: _____		QTY Effective: _____				MRB (QSI042) Approval							
Description Work Order Deviation				Disposition											
Root Cause				FAULT CATEGORY											
Environment ☐ No Re-verification ☐ Design ☐ Operator ☐ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☐ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☐ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐				Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ OTHER: ☐						Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misaligned ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
				Completed By											
				Lead hand / Supervisor Approval Verification											
				QC / QA Coordinator Approval											

Work Order ID 150792
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Item ID: D4464-041 Accept *N9000040100* Setup Start *NS1*
Revision ID: Fuel Tank Assembly Stop *NS2*
Item Name: Fuel Tank Assembly
Start Date: 9/6/2016 Start Qty: 1.00 *1*
Required Date: 10/18/2016 Req'd Qty: 1.00 *1*
Reference: Cust Item ID:
Customer:

Approvals: Process Plan: Date: Tooling: Date: Run Start *NR1*
QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
180	QC14- Inspect Spray Paint	0.00							
1RN	Memo	0.0							
QC									
Quality Control									

Acting
Attention,
remove safety pin before installation
Atencão:
Remova o pino de segurança antes de montar

190 *1QN* | Small Fab | Memo | 0.25 | | | | | |

1- Install placards, fuel sender, tank support, fuel filler splash guard assy, fuel cap as per dwg
2- Abrade surface with red scotch brite and install cushion using contact cement
A/R Contact Cement Batch: 1300C 1134871

200 *2NN* | QC | QC5- Inspect part completeness to step on W/O | 0.00 | | | | | |

Quality Control

DAS
38
9-89
OCT 17 2016

OCT 14 2016
38
9-89

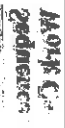
OCT 16 2016
38
9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No.: _____ NCR No.: _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other		MRB (QS1042) Approval Completed By  Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Date : _____		QTY Effective : _____			
Step #: _____		Disposition			
Description Work Order Deviation		Disposition			
FAULT CATEGORY					
Root Cause					
☐ Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ Substation ☐ Past Expiry Date ☐ Misidentified	☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due	☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter	☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes		
☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center		☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence			
OTHER : _____					

Work Order ID 150792

September 06, 2016 2:25:08 PM

150792

Page 9

Item ID: D4464-041

Revision ID:

Item Name: Fuel Tank Assembly

Start Date: 9/6/2016 Start Qty: 1.00

Required Date: 10/18/2016 Req'd Qty: 1.00

Reference:

Accept

N9000040100

Setup Start

NS1

Stop *NS2*

Cust Item ID:

Customer:

Approvals: Process Plan:

Date: Tooling:

Date:

QC: Date: SPC (Y/N):

Date:

Run Start

NR1

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan
Code

Accept
Qty

Reject
Qty

Reject
Number Insp.
Stamp

210 Identify as per dwg & Stock Location: 0.00

210

Packaging Memo

0.00

Packaging

PP140894

OCT 17 2016

220 QC21- Final Inspection - Work Order Release

0.00

220

QC Memo

0.02

Quality Control

DAS

21

OCT 18 2016

DAS

21

9-89

OCT 17 2016

DQA:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS											
Part No. _____		Rework Scrap Use-as-is		Skid-tube Machining Thermoforming Large Fab		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coor. Rec/Store/Packaging Supplier		Engineering Quality Other					
NCR No. _____		Suspected Unapproved		Thermofomr		Finishing		Composite		Supplier					
Date :		Step #:		QTY Effective :		MRB (QSI042) Approval									
Description Work Order Deviation				Disposition											
												Completed By			
												Lead hand / Supervisor Approval Verification		QC / QA Coordinator Approval	
Root Cause				FAULT CATEGORY											
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong										
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions										
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance										
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect										
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing										
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved										
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing										
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish										
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread										
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence										
Past Expiry Date	Manufacturing Process														
Misidentified	Past Due														
				OTHER :											

Picklist Print

September 06, 2016 2:25:06 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792

D4464-041

Start Date: 9/6/2016

Start Qty: 1.00

Required Date: 10/18/2016

Required Qty: 1.00

Comments:

IPP REV:A 11.11.23 NEW ISSUE DD VERF:EC IPP REV:B
12.03.08 AS PER DWG REV:B DD VERF:EC IPP REV:C 12.04.24
ECN 12-571 DD VERF:EC IPP REV:D 13.10.30 DWG
REV PE1 DD VERF:JLM IPP REV:E 14.06.13 AS PER DWG
REV:E DD VERF:JLM IPP REV:F 14.07.21 AS PER DWG REV:F DD
VERF:JLM IPP REV:G 15.01.15 AS PER DWG REV:G DD
VERF:JLM IPP REV:H 15.03.04 AS PER DWG REV:H DD
VERF:JLM IPP REV:I 15.06.17 AS PER DWG REV:H DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bln Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

MS20470AD4-6

Purchased No

Each 2,288.000

8

MS20470AD4-6

Rivet, Universal Head

**

16/09/17 DAS 36 9-09

Location

CCCK004

m134852

GA

m131618

m133077

ST310

m134360

Loc Qty

1566

1566

497

81

416

225

225

Loc Code

1566

1566

497

81

416

225

225

D3997-5

Manufactured No

190 Each

8.0000

2

2

D3997-5

Placard

**

DAS 6 OCT 05 2016 9-09

Location

ST069

137473

143814

Loc Qty

8

2

6

Loc Code

8

2

6



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

DISPOSITION		AGAINST DEPARTMENT/PROCESS				
Work Order: _____	Suspected Unapproved	Rework	Skid-tube	Cross tube	Water Jet	Engineering
Part No. _____		Scrap	Machining	Small Fab	Prod. Eng. Coord.	Quality
NCR No. _____		Use-as-is	Thermoforming	Finishing	Rec/Store/Packaging	Other
Date: _____		Step #: _____		QTY Effective: _____		MRB (QS1042) Approval
Description Work Order Deviation		Disposition				
		Completed By				
		Lead hand / Supervisor Approval Verification				
		QC / QA Coordinator Approval				
Root Cause		FAULT CATEGORY				
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong	
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions	
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance	
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect	
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing	
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved	
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing	
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish	
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread	
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence	
Past Expiry Date	Manufacturing Process					
Misidentified	Past Due					
OTHER: _____						

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D3997-11

Manufactured

No

190

Each

7.0000

1

1

D3997-11

Placard

OCT 05 2016

DAS
6
8-89

D3997-17

Manufactured

No

190

Each

6.0000

1

1

D3997-17

Placard

OCT 05 2016

DAS
6
8-89

D3997-29

Manufactured

No

190

Each

7.0000

1

1

D3997-29

Placard

OCT 05 2016

DAS
6
8-89

D3997-43

Manufactured

No

190

Each

6.0000

1

1

D3997-43

Placard

OCT 05 2016

DAS
6
8-89

Location
ST069

127112

Loc Qty
6

Loc Code

6

1

DQA: _____
Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS				Engineering	
Part No. _____		Suspected Unapproved		Skid-tube		Cross tube		Water Jet	
NCR No. _____		Use-as-is		Thermoforming		Finishing		Prod. Eng. Coord.	
Date: _____		Step #: _____		Large Fab		Composite		Rec/Store/Packaging	
Date: _____		QTY Effective: _____		Supplier		Supplier		Supplier	
Date: _____		Step #: _____		QTY Effective: _____		Supplier		Supplier	
Description Work Order Deviation		Disposition		Completed By		Lead hand / Supervisor Approval Verification		QC / QA Coordinator Approval	
Root Cause Environment ☐ No Re-verification ☐ Design ☐ Operator ☐ Doc/Data ☐ Offset/Setup ☐ Equip/Tooling ☐ Supplier ☐ Handling/Pre ☐ Training ☐ Material ☐ Use for Testing ☐ Internal Transport ☐ Poor Information ☐ Tribal Knowledge ☐ Rushing ☐ LOA ☐ Product Improvement ☐ Substation ☐ Process Improvement ☐ Past Expiry Date ☐ Manufacturing Process ☐ Misidentified ☐ Past Due ☐		Pressure/Forced Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER: _____									

Picklist Print

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Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D3999-7

Manufactured

No

120

Each

7.0000

1 1

✓ ***D3999-7***
Corner

**

3146941 → 1

DAS 43
9-89

SEP 08 2016

D4000-1

Manufactured

No

120

Each

8.0000

1 1

✓ ***D4000-1***
Fuel Supply Fitting

**

DAS 36
16/09/19 9-89

Location

Loc Qty

Loc Code

GA

128899
137221

120

Each

8.0000

1 1

✓ ***D4000-5***
Fuel Tank Vent Fitting

Manufactured

No

120

Each

8.0000

1 1

** B130055 → 1

DAS 43
9-89

SEP 08 2016

Location

Loc Qty

Loc Code

WA003

107388
130055

120

Each

24.0000

3 3

D4000-9
D4000-9
Grommet

Manufactured

No

120

Each

24.0000

3 3

**

DAS 36
16/09/19 9-89

3

DAS 36
9-89

Location

Loc Qty

Loc Code

GA

123024
137219

120

Each

24.0000

16

September 06, 2016 2:25:07 PM

Shop Packet Print



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS							
Part No. _____		Rework Scrap Use-as-is Suspected Unapproved		Skid-tube Machining Thermoforming Large Fab		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier		Engineering Quality Other	
NCR No. _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval					
Date: _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval					
Description Work Order Deviation		Disposition									
Work Order: _____ Part No. _____ NCR No. _____ Date: _____		Completed By									
		Lead hand / Supervisor Approval Verification									
		QC / QA Coordinator Approval									
Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
OTHER : _____											

Picklist Print

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Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792

D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D4000-045

Manufactured

No

120

Each

2.0000

1

1

D4000-045

Fuel Pickup Fitting Assembly

**

16/09/19 DAS 36 8-89

D4008-11

Manufactured

No

120

Each

7.0000

1

1

D4008-11

Hinge Half

**

16/09/19 DAS 36 8-89

D4008-041

Manufactured

No

190

Each

12.0000

1

1

D4008-041

Fuel Filler Splash Guard Assembly

**

16/09/19 DAS 36 8-89

D4023-3

Manufactured

No

190

Each

8.0000

1

1

D4023-3

Cap And Flange

**

16/09/19 DAS 43 8-89

Location
W/A003

Loc Qty

Loc Code

8

106700

1

122537

2

129761

2

130907

1

132479

2

Date:

Date:

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework Scrap Use-as-is Suspected Unapproved		AGAINST DEPARTMENT/PROCESS Skid-tube Machining Thermoforming Large Fab Cross tube Small Fab Finishing Composite Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier Engineering Quality Other			
Date : _____		Step #: _____		QTY Effective : _____			
Description Work Order Deviation		Disposition		MRB (QS1042) Approval			
Completed By		Lead hand / Supervisor Approval Verification		QC / QA Coordinator Approval			

Root Cause		FAULT CATEGORY											
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong								
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions								
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance								
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect								
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing								
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved								
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing								
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish								
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread								
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence								
Past Expiry Date	Manufacturing Process												
Misidentified	Past Due												
OTHER :													

Picklist Print

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Page 5

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D4025-5

Manufactured No

190 Each

12.0000

1 1

D4025-5

Fuel Quantity Sender

DAS
9-89 OCT 05 2016

Location

Loc Qty

Loc Code

ST240

12

129924

3

132650

1

143838

4

147065

4

D4057-1

Manufactured No

120 Each

35.0000

3 3

D4057-1

Retaining Ring

DAS
16/09/19 9-89

Location

Loc Qty

Loc Code

GA

35

107269

35

D4062-041

Manufactured No

190 Each

11.0000

1 1

D4062-041

Tank Support Assembly

DAS
16/09/17 9-89

Location

Loc Qty

Loc Code

W/A003

11

134301

1

145585

10

D4125-1

Manufactured No

120 Each

8.0000

1 1

D4125-1

Fwd Sediment Bowl

DAS
43 SEP 08 2016

Location

Loc Qty

Loc Code

W/A003

8

133944

3

144614

5

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Shop Packet Print

Page 5

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: Date:

Date:

Work Order update only

1



Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION ☐ Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved		AGAINST DEPARTMENT/PROCESS ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier		Engineering ☐ Quality ☐ Other					
Date : _____		Step #: _____		QTY Effective : _____		MRB (QSI042) Approval					
Description Work Order Deviation				Disposition							
Completed By				Lead hand / Supervisor Approval Verification							
								QC /QA Coordinator Approval			

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/ Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										

OTHER : _____

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D4125-3

Manufactured

No

120

Each

8.0000

1 1

****B144763 → 1 DAS 43**

SEP 08 2016

D4125-3

Aft Sediment Bowl

Location
WA003

Loc Qty
8
2
6

Loc Code

130324
144763

120

Each

7.0000

2 2

****DAS 6**

D4404-5

Cushion, Fwd

Location
ST516

Loc Qty
7
1
6

Loc Code

127570
133965

112

Each

3.0000

1 1

****B145952 → 1 DAS 43**

SEP 08 2016

D4462-1

Baffle

Manufactured

No

Location
WA003

Loc Qty
3
3

Loc Code

145952

112

Each

3.0000

1 1

****B146029 → 1 DAS 43**

SEP 08 2016

D4462-3

Baffle

Manufactured

No

Location
WA003

Loc Qty
3
3

Loc Code

146029

3

1

9-89

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____ Date: _____	Step #: _____	QTY Effective : _____	MRB (QSI042) Approval	Engineering ☐ Quality ☐ Other ☐
DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐		
Description Work Order Deviation		Disposition		
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		FAULT CATEGORY Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		
OTHER :		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		
Completed By		Lead hand / Supervisor Approval Verification		
QC / QA Coordinator Approval		QC / QA Coordinator Approval		

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D4463-041 Manufactured No

120 Each

5.0000

1 1

D4463-041
Tank Top Assembly

****B146773 → 1** **DAS 43** **SEP 08 2016**
9-89

Location
WA003

134994
145568
146773

Loc Qty

5
1
2
2

Loc Code

120 Each

6.0000

1 1

D4463-3
D4463-3
Tank Aft End

Manufactured No

Location
WA003

146108

Loc Qty

6
6

Loc Code

120 Each

15.0000

1 1

D4463-5
D4463-5
Tank Upper Cut Out

Manufactured No

Location
WA003

106751
121024

Loc Qty

15
12
3

Loc Code

120 Each

1.0000

1 1

D4463-7
D4463-7
Tank Fwd End

Manufactured No

Location
WA003

146071

Loc Qty

1

Loc Code

****B146071 → 1** **DAS 43** **SEP 08 2016**
9-89

DQA:

Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS																																																																																
Part No. _____		Rework Scrap Use-as-is		Skid-tube Machining Thermoforming Large Fab		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier		Engineering Quality Other																																																																										
NCR No. _____		Suspected Unapproved		QTY Effective : _____		MRB (QS1042) Approval																																																																														
Date : _____		Step #: _____		Description Work Order Deviation		Disposition																																																																														
Root Cause <table border="1"><tr><td>Environment</td><td>No Re-verification</td><td>Pressure/Forced</td><td>Temperature/Cure</td><td>Power Loss/Surge</td><td>Positioned Wrong</td></tr><tr><td>Design</td><td>Operator</td><td>Bending</td><td>Set-up</td><td>Folio/Program</td><td>Outside Dimensions</td></tr><tr><td>Doc/Data</td><td>Offset/Setup</td><td>Centre Not Concentric</td><td>BOM/Route</td><td>Grain</td><td>Over/Under tolerance</td></tr><tr><td>Equip/Tooling</td><td>Supplier</td><td>Cracks</td><td>Broken/Damage/Defect</td><td>Weld</td><td>Part Incorrect</td></tr><tr><td>Handling/Pre</td><td>Training</td><td>Crimp/Kink/Ripple/Wave</td><td>Inspection Incomplete/Unqualified</td><td>Wrong Stock Pulled</td><td>Part Lost/Missing</td></tr><tr><td>Material</td><td>Use for Testing</td><td>Cuffs</td><td>Contamination</td><td>Out of Sequence</td><td>Part Moved</td></tr><tr><td>Internal Transport</td><td>Poor Information</td><td>Crushing</td><td>Countersink</td><td>Off-set</td><td>Drawing</td></tr><tr><td>Tribal Knowledge</td><td>Rushing</td><td>Heat Treat</td><td>Cut Too Short</td><td>Mislabeled</td><td>Finish</td></tr><tr><td>LOA</td><td>Product Improvement</td><td>Wave/Twist in Tube</td><td>Instructions Incomplete/Unclear</td><td>Fit/Function</td><td>Misread</td></tr><tr><td>Substation</td><td>Process Improvement</td><td>Marks/Chatter</td><td>Drill Holes</td><td>Misaligned/off center</td><td>Turning Sequence</td></tr><tr><td>Past Expiry Date</td><td>Manufacturing Process</td><td colspan="4"></td></tr><tr><td>Misidentified</td><td>Past Due</td><td colspan="4"></td></tr></table> OTHER : _____											Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong	Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions	Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance	Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect	Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing	Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved	Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing	Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish	LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread	Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence	Past Expiry Date	Manufacturing Process					Misidentified	Past Due					Completed By	
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong																																																																															
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions																																																																															
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance																																																																															
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect																																																																															
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing																																																																															
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved																																																																															
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing																																																																															
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish																																																																															
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread																																																																															
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence																																																																															
Past Expiry Date	Manufacturing Process																																																																																			
Misidentified	Past Due																																																																																			
Lead hand / Supervisor Approval Verification																																																																																				
QC / QA Coordinator Approval																																																																																				

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792

D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

D4463-9

Manufactured No

112 Each

2.0000

1 1

**

B146080 → 1

DAS 43

SEP 08 2016

D4463-9

Tank Back

Location

Loc Qty

Loc Code

WA003

146080

112

2

6.0000

1 1

D4463-11

Manufactured No

112 Each

6.0000

1 1

**

B146056 → 1

DAS 43

SEP 08 2016

D4463-11

Tank Front

Location

Loc Qty

Loc Code

WA003

146056

190

6

4.0000

1 1

D4463-13

Manufactured No

190 Each

4.0000

1 1

**

B146049 → 1

DAS 43

SEP 08 2016

D4463-13

Tank Bottom

Location

Loc Qty

Loc Code

WA003

146951

1

1

1

1

WA004

146049

190

3

8.0000

1 1

D4577-041

Manufactured No

190 Each

8.0000

1 1

**

B161011 → 1

DAS 36

D4577-041

Fwd Access Panel Assembly

Location

Loc Qty

Loc Code

ST247

137128

2

2

2

1

WA003

146803

6

6

6

6

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____ Date: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS		MRB (QS1042) Approval	
Step #: _____		Suspected Unapproved		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier	
Description Work Order Deviation		Rework Scrap Use-as-is		Skid-tube Machining Thermoforming Large Fab		Engineering Quality Other	
QTY Effective : _____		Disposition					
Completed By							
Lead hand / Supervisor Approval Verification							
QC / QA Coordinator Approval							

Root Cause		FAULT CATEGORY									
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong						
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions						
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance						
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect						
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing						
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved						
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing						
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish						
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread						
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence						
Past Expiry Date	Manufacturing Process										
Misidentified	Past Due										
OTHER : _____											

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐		AGAINST DEPARTMENT/PROCESS		MRB (QS1042) Approval	
Date : _____ Step #: _____		QTY Effective : _____					
Description Work Order Deviation		Disposition		Completed By			
_____		_____		Lead hand / Supervisor Approval Verification			
_____		_____		QC / QA Coordinator Approval			

Root Cause				FAULT CATEGORY											
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Positioned Wrong	Outside Dimensions	Over/Under tolerance	Part Incorrect	Part Lost/Missing	Part Moved	Drawing	Finish	Misread	Turning Sequence		
Design	Operator	Bending	Set-up												
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route												
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect												
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified												
Material	Use for Testing	Cuffs	Contamination												
Internal Transport	Poor Information	Crushing	Countersink												
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short												
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear												
Substation	Process Improvement	Marks/Chatter	Drill Holes												
Past Expiry Date	Manufacturing Process														
Misidentified	Past Due														
OTHER : _____															

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

Each

343.0000

24

AN3-5A

OCT 05 2016

DAS

6

9-89

Location

Loc Qty

Loc Code

FP001

157

m133686

2

m134502

155

ST350

186

m135058

186

Each

42.0000

5

OCT 05 2016

DAS

6

9-89

Purchased

No

AN3H5A
AN3H5A
Bolt

Location

Loc Qty

Loc Code

ST349

17

m132680

17

ST350

25

m134852

25

Each

247.0000

4

OCT 05 2016

DAS

6

9-89

Purchased

No

AN3-7A
AN3-7A
Bolt

Location

Loc Qty

Loc Code

over003

225

m135058

225

ST349

22

m134606

22

4

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD4-4

Purchased

No

Each

4,002.000

4

MS20426AD4-4

Rivet

**

DAS 36 9.00

Location

Loc Qty

Loc Code

GA

125445

1825

1825

ST312

m132536

2177

2177

MS20470AD4-4

Purchased

No

Each

5,133.000

165

MS20470AD4-4

Rivet, Universal Head

**

DAS 36 9.00

Location

Loc Qty

Loc Code

CCK004

M135133

M135536

4138

2069

2069

GA

M134294

M134848

627

101

526

ST310

M132803

368

368

165

16/09/13

16/09/13



DQA: _____ Date: _____
QA Closed: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐	
Date: _____		Step #: _____		QTY Effective : _____	
Description Work Order Deviation		Disposition			
Completed By		Lead hand / Supervisor Approval Verification			
QC / QA Coordinator Approval					

FAULT CATEGORY									
Root Cause					Fault Category				
Environment	No Re-verification	Pressure/Forced	Temperature/Cure	Power Loss/Surge	Positioned Wrong				
Design	Operator	Bending	Set-up	Folio/Program	Outside Dimensions				
Doc/Data	Offset/Setup	Centre Not Concentric	BOM/Route	Grain	Over/Under tolerance				
Equip/Tooling	Supplier	Cracks	Broken/Damage/Defect	Weld	Part Incorrect				
Handling/Pre	Training	Crimp/Kink/Ripple/Wave	Inspection Incomplete/Unqualified	Wrong Stock Pulled	Part Lost/Missing				
Material	Use for Testing	Cuffs	Contamination	Out of Sequence	Part Moved				
Internal Transport	Poor Information	Crushing	Countersink	Off-set	Drawing				
Tribal Knowledge	Rushing	Heat Treat	Cut Too Short	Mislabeled	Finish				
LOA	Product Improvement	Wave/Twist in Tube	Instructions Incomplete/Unclear	Fit/Function	Misread				
Substation	Process Improvement	Marks/Chatter	Drill Holes	Misaligned/off center	Turning Sequence				
Past Expiry Date	Manufacturing Process								
Misidentified	Past Due								
					OTHER : ☐				

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

190

Each

1,788.000

4

4

MS21042L3

135600 OCT 05 2016

Nut

DAS
36
9-89

Location

Loc Qty

Loc Code

FP001

m133790

14

14

GA

m134360

303

112

m135135

191

OVER007

m135530

600

ST303

m135135

871

m135407

271

190

Each

1,598.000

13

13

Purchased

No

190

Each

1,598.000

13

13

Purchased

No

190

Each

1,598.000

13

13

Purchased

No

190

Each

1,598.000

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Purchased

No

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Each

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Purchased

No

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Each

1,598.000

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13

Purchased

No

190

Each

1,598.000

13



DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS				Engineering			
Part No. _____		Rework Scrap Use-as-is		Skid-tube Machining Thermoforming		Cross tube Small Fab Finishing Composite		Water Jet Prod. Eng. Coord. Rec/Store/Packaging Supplier		Quality Other	
NCR No. _____		Suspected Unapproved		Large Fab							
Date: _____		Step #: _____		QTY Effective: _____						MRB (QS1042) Approval	
Description Work Order Deviation				Disposition							
				Completed By							
				Lead hand / Supervisor Approval Verification							
				QC / QA Coordinator Approval							

FAULT CATEGORY									
Root Cause		Pressure/Forced		Temperature/Cure		Power Loss/Surge		Positioned Wrong	
Environment	No Re-verification	Bending	Set-up	Set-up	Folio/Program	Grain	Weld	Outside Dimensions	Over/Under tolerance
Design	Operator	Centre Not Concentric	BOM/Route	Broken/Damage/Defect				Part Incorrect	
Doc/Data	Offset/Setup	Cracks	Inspection Incomplete/Unqualified	Contamination	Wrong Stock Pulled	Out of Sequence	Off-set	Part Lost/Missing	
Equip/Tooling	Supplier	Crimp/Kink/Ripple/Wave	Countersink	Cut Too Short	Misaligned/off center	Misaligned/off center	Misaligned/off center	Part Moved	
Handling/Pre	Training	Cuffs	Wave/Twist in Tube	Instructions Incomplete/Unclear				Drawing	
Material	Use for Testing	Crushing	Marks/Chatter	Drill Holes				Finish	
Internal Transport	Poor Information	Heat Treat						Misread	
Tribal Knowledge	Rushing							Turning Sequence	
LOA	Product Improvement								
Substation	Process Improvement								
Past Expiry Date	Manufacturing Process								
Misidentified	Past Due								
OTHER: _____									

Picklist Print

September 06, 2016 2:25:07 PM

Work Order ID: 150792

Parent Item: D4464-041

Parent Item Name: Fuel Tank Assembly

150792
D4464-041

Start Date: 9/6/2016

Required Date: 10/18/2016

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363I

Purchased

No

190

Each

1,417.000

24

24

NAS1149D0363.I

DAS

Washer

9-89 OCT 05 2016

Location

Loc Qty

Loc Code

GA

352

m134055

352

ST263

1065

m134955

65

m135297

1000

24

DQA: _____ Date: _____

Date:

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed:

Date:

Work Order update only

Work Order: _____		DISPOSITION		AGAINST DEPARTMENT/PROCESS														
Part No. _____		Suspected Unapproved		Skid-tube		Cross tube	Water Jet	Engineering										
NCR No. _____		Use-as-is		Machining	Small Fab	Prod. Eng. Coord.	Quality	Other										
Date*: _____		Step #: _____		Thermoforming		Finishing	Rec/Store/Packaging	Supplier										
Date*: _____		QTY Effective : _____		Large Fab		Composite	MRB (QS1042) Approval											
Description Work Order Deviation				Disposition														
Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval				Positioned Wrong Outside Dimensions Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Drawing Finish Misread Turning Sequence														
Root Cause Environment Design Doc/Data Equip/Tooling Handling/Pre Material Internal Transport Tribal Knowledge LOA Substation Past Expiry Date Misidentified				Pressure/Forced Bending Centre Not Concentric Cracks Crimp/Kink/Ripple/Wave Cuffs Crushing Heat Treat Wave/Twist in Tube Marks/Chatter					Temperature/Cure Set-up BOM/Route Broken/Damage/Defect Inspection Incomplete/Unqualified Contamination Countersink Cut Too Short Instructions Incomplete/Unclear Drill Holes					Power Loss/Surge Folio/Program Grain Weld Wrong Stock Pulled Out of Sequence Off-set Mislabeled Fit/Function Misaligned/off center				
OTHER :																		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO33799

Purchase Order Date 9/29/2016

PO Print Date 9/30/2016

Page Number 1 of 4

Order From :
SKYSERVICE
6120 MIDFIELD ROAD
MISSISSAUGA, ONTARIO L5P 1B1
CANADA

VC-SKY001

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905-678-5636

Ship To Contact
Ship To Phone
Ship Via: Delivered
Ship Acct:

Buyer
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	71401-45	procurement quality clausesq	9/29/2016	No	1.00	\$0.00	\$0.00
	Procurement Quality Clauses		9/29/2016				
	A005 right of entry						
	A012 chemical and physical test report						
	A016 personnel qualification						
	A017 raw material identification (as applicable)						
	A026 certification of material conformance						
	A041 quality management system						
	A042 dart notification by supplier						
	A043 retention of quality documents						

Line Total: \$0.00

2 150792

D4464-041 FUEL TANK
9/29/2016
Yes
9/29/2016

1.00

\$0.00 \$0.00

LIQUID PENETRANT INSPECTION AS PER QSI 038 OR
LPI AS PER ASTM 1417 LEVEL 2

SP/6-10-3

Note:

9/30/2016

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

DOT APP 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO29618	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: PO33799
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:

CARRY OUT NDT ON 6 CROSSTUBES AND 1 FUEL TANK ASSY AS PER PO33799

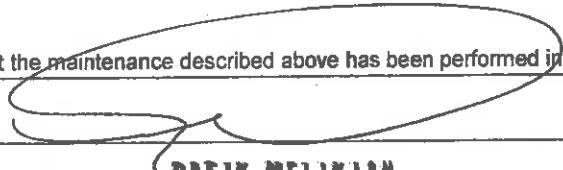
1 FUEL TANK ASSY, ITEM ID# D4464-041, WORK ORDER ID# 150792

8016-103

6 FWD CROSSTUBES, ITEM ID# D212-664-101, WORK ORDER ID# 151230, 149253, 149252, 149250, 148560, 149251

Action Taken:						Date:	Initial/Stamp:
LPI C/O IAW ASTM E-1417M-13 ***NO CRACK FOUND*** PEN. ZL-56, MPO13600, CLEANER SKC-S MPO13923, EMU. MPO15896, DEV. MPO11715, UV LIGHT M-20142						SEP 29 2016	
Description	Location	P/N	Qty	Batch	S/N Off	S/N On	

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature: 	ACA/SCA Stamp	Date:
Name: RAFIK MELIKIAN		SEP 29 2016

11

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